

TECHNICAL DATA SHEET

P.DS.038 (FB SERIES) REV02/06/2021

SOLVENT BASED

QD STEEL ETCH PRIMER

An inexpensive quick drying metal primer. Contains anti-corrosion inhibitors, etching and adhesive properties. Primer supplied ready for use on ferrous & certain non-ferrous metals. **QD Steel Etch Primer** has superior welding and adhesive properties and provides protection of the surface in addition to providing an ideal primer for overcoating of most Promac topcoat products.



USES

QD Steel Etch Primer is a fast-drying primer for steel that may be used for interior and exterior surfaces as a primer coating on ferrous & certain non-ferrous metals. The product may be applied to a surface for protection during transportation, storage, fabrication, and service life.

FEATURES & BENEFITS

- Quick drying
- Alkyd based
- Economical
- Primer & topcoat
- Etching properties
- Anti-corrosive metal primer

TECHNICAL DATA

PHYSICAL FORM	Flammable viscous coloured liquid containing pigments
COLOUR	Standard colours
FINISH	Low Gloss Finish
SPREADING RATE	Approximately 7 m ² /ℓ per application
POLYMER TYPE	Modified alkyd resin
RECOMMENDED DFT	35 - 40 µm per coat
RECOMMENDED WFT	140 – 160 µm per coat
VOLUME SOLIDS	24 – 26%
VISCOSITY	Ford Cup F4 60 - 90 seconds
S G @ 23°C	0.980 ± 0.05 kg p /ℓ
PIGMENTS	Non-toxic (lead less than 90 ppm & chromate-free) types only
DRYING PROPERTIES	Surface or touch-dry: within 30 minutes
RECOATING TIME	4 – 6 hours depending on conditions and film build
FLASH POINT	Below 21°C (Abel Closed Cup method)
PACKAGING	1ℓ & 5ℓ
THINNING	If required to reduce viscosity add a minimum quantity of E-Thinner or lacquer thinner. (NB: DO NOT add water)
CLEANING	Do not allow the product to dry on equipment. Equipment is readily cleaned using lacquer thinner or proprietary brush cleaners. Use Paint Stripper to remove cured coatings

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APPLICATION METHOD

The primer is supplied ready for use for spray application. It can be applied using a brush or roller, but care must be taken to reduce the time taken to apply the primer due to its quick drying properties. Synthetic Enamel rollers designed for enamels are suggested for roller application. Airless spray may be used if required.

DO NOT PAINT

- IF THE TEMPERATURE IS BELOW 10°C OR ABOVE 35°C
- IF IT IS RAINING OR RAIN IS FORECAST
- IF THE SURFACE IS DAMP (MOISTURE READING ABOVE 15%)
- BEFORE 9H00 AND AFTER 16H00 IN THE WINTER

SURFACE PREPARATION

General:

Ensure surfaces are dry, in sound condition, clean and free from any contaminants.

Poorly adherent materials:

All poorly adhering material & contaminants must be removed from the surface before the use of Promac QD Steel Etch Primer. Remove all material & contaminants with the use of mechanical surface preparation methods of hand or power tool cleaning and further cleaned with surface cleaning methods.

Damaged existing paint coatings:

Remove all damaged existing paint from the surface. If not effectively removed with the use of water cleaning methods such as high-pressure water cleaning, then with the means of mechanical surface preparation methods such as Hand, Power tool or Blast Cleaning and further cleaned with water cleaning methods.

Rust:

All rust layers must be removed | overcome by means of mechanical surface preparation methods such as but not limited to; Hand, Power tool or Blast Cleaning Methods. The loose rust must then be removed by means of surface cleaning methods (water cleaning). Thereafter in areas where rust could not be completely removed, the required application(s) of Promac, Rust Converter & Passivator must be applied to the area before the use of Promac, QD Steel Etch Primer. In areas where rust has been removed, the surface must be treated with the use of Promac, Galv Prep before the use of Promac, QD Steel Etch Primer. NB: Failure to remove all red rusting may result in premature rust penetration through the applied paint system.

Mil Scale:

All mil scale is to be removed by means of mechanical surface preparation methods such as Power tool or Blast Cleaning Methods. Once removed the surface of the metal is to be cleaned with the use of Promac, Galv Prep before the use of Promac, QD Steel Etch Primer.

Oils, grease, grime, fungicide, mould & bacteria:

Remove oils, grease, grime, fungicide, mould, bacteria and other contaminants of a similar nature from the surface with the use of Promac, Galv Prep.

Chalky surfaces:

Test the surface for chalky properties with the use of clear tape used for Dust and debris tests, such as the Elcometer 142 dust tape. Apply the tape to the surface and after a short while remove the tape and place the tape on a white piece of paper. Check the tape's cleanliness, if more than 5% of the underside of the tape contains chalky material treat the surface as chalky. Surface preparation methods must be repeated until surface is free from all chalking materials where tests yield equal to or less than 5% chalky material.

Exposed (unpainted) metal surfaces:

Subsequent to carrying out the required surface preparation methods above, all exposed (bare & unpainted) metal substrate surfaces shall be treated with the use of Promac, Galv Prep before the use of Promac, QD Steel Etch Primer.

NOTE: All additional products advised for use during surface preparation must be use and applied in accordance to that which is stated within the relevant product's data sheets.

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P.DS.038 (FB SERIES) REV02/06/2021

DIRECTION & APPLICATION

Subsequent to the surface preparation suggested above ensuring the surface is dry, sound and free of all contamination apply an application of Promac, QD Steel Etch Primer to the surface using a brush, roller or spray. Allow for the product to dry for 4 – 6 hours before overcoating the application Promac, QD Steel Etch Primer may be overcoated with most Promac topcoat products.

NOTE 1: Gloss Enamels, Epoxy and polyurethane enamels (twin pack types and moisture cure types) may be adversely affected by the acid content of the primer: allow primer to cure for 24h minimum before using these finishing coats.

NOTE 2: Do not apply paint if it is raining or if rain is expected within 4 hours. Do not apply paint if the surface temperature is below 4°C.

Finishing coats:

A range of finishing coats may be used, including: QD Enamel, as well as water-based finishing coats such as: Roof coats etc.

NOTES:

Light sanding of the primer coating will reduce brush marks and improve finishing coat adhesion.

HEALTH & SAFETY

The product contains a flammable solvent. Precaution must be taken to prevent naked flames encountering with vapours (i.e. smoking must be prohibited). Solvents may also cause narcotic effects if the vapour concentration is too high: always ensure adequate ventilation (do not use solvent-based paints in a poorly ventilated or closed space). Avoid contact with skin, eyes, mouth etc. Wear protective clothing, goggles & gloves. If body contact is made, rinse off immediately. Wash product off skin before it has dried using soap and water.

DISCLAIMER ADVICE

The information given in this Product Information Sheet is based on controlled laboratory tests and many years of experience. It is given in good faith, but no guarantee of any performance characteristic is given or implied. Promac Paints cannot be held liable for consequential damage of whatsoever nature that may arise from the use of Promac products. Paint technology is continuously being developed and Promac Paints reserves the right to update product specifications without prior notice. Contact Promac Paints for further details.